Par Pr Peren RLS Ray RLS

## MONITOR WELL PRE-SPUD PROPOSAL

ED LOCATION: (ap)  Et 34 Twnship  ARAMETERS:  Et total depth 500  Atticipated stratigraph  Auvium (Santa Fe Goodesite (or possibly  Atticipated water beaudesite (or Tuff)	Site  20S  (ft)  roup)  Tuff)  ring horizon	Area <u>BLN</u> Rng <u>3E</u> ) (b) 1	1 Land  NE 1/4  Est. ground of from 0  from 26	NW ½ SE elevation @4  ) ' to 26  55 ' to TI	4716 55' '((	W_½  ft depth)						
ARAMETERS:  t. total depth 500  ticipated stratigraph tuvium (Santa Fe Goodesite (or possibly aticipated water beaudesite (or Tuff)	o 20S l	Rng <u>3E</u> ) (b) 1	NE 1/4  Est. ground of from 0 from 26	NW 1/4 SE elevation @4  ) ' to _ 26  55 ' to _ TI	_ <sup>1</sup> / <sub>4</sub> NV 4716 55' ' ((	ft depth)						
ARAMETERS:  t. total depth 500  ticipated stratigraph  uvium (Santa Fe G  desite (or possibly  ticipated water bea  desite (or Tuff)	y: roup) Tuff) ring horizon	) (b) ] n(s):	Est. ground of	elevation <u>@</u> 4 )' to26 55' toTI	4716 55' '((	ft depth)						
t. total depth 500 htticipated stratigraph htticipated (Santa Fe G htticipated (or possibly htticipated water bea htticipated (or Tuff)	ny: roup) Tuff) ring horizon	n(s):	_ from <u>0</u> _ from <u>26</u>	)' to <u>26</u> 55_' to <u>TI</u>	<u>55'</u> '((	depth)						
ticipated stratigraph uvium (Santa Fe G desite (or possibly aticipated water bea desite (or Tuff)	ny: roup) Tuff) ring horizon	n(s):	_ from <u>0</u> _ from <u>26</u>	)' to <u>26</u> 55_' to <u>TI</u>	<u>55'</u> '((	depth)						
desite (or possibly atticipated water beaudesite (or Tuff)	roup) Tuff) ring horizon	n(s):	_ from _ <u>26</u>	55 ' to <u>TI</u>	<u>D</u> '((							
desite (or possibly atticipated water beaudesite (or Tuff)	Tuff) ring horizon	n(s):	_ from _ <u>26</u>	55 ' to <u>TI</u>	<u>D</u> '((							
aticipated water beaudesite (or Tuff)	ring horizon	n(s):				depth)						
desite (or Tuff)				at <u>3</u>	65 '(6							
				at <u>3</u>	65 ' (6	Anticipated water bearing horizon(s):						
nticipated static water					(	depth)						
ticipated static water	er level			at		depth)						
		<u>290</u> , (de	epth)									
JRPOSE/JUSTIFIC	characteris	tics and ass		•	saturate	<u>-</u>						
			iger/etc.)									
- ''				' to 100	,	(max)						
	rilling method(s): ( ud Rotary	rilling method(s): (air/foam/mu	ir Foam Rotary	rilling method(s): (air/foam/mud rotary/auger/etc.)  fud Rotary from 0  ir Foam Rotary from 100	rilling method(s): (air/foam/mud rotary/auger/etc.)  ud Rotary from 0 'to 100	rilling method(s): (air/foam/mud rotary/auger/etc.)  Tud Rotary from 0 'to 100 ' ir Foam Rotary from 100 'to TD '						

WELL	NAMI	E/NUMBER: BLM-24						
	(b)	Lithology sampling - collect sample every:						
		5' intervals Method Grab from 0 'to TD' (depth)						
		Core type 6" Dennison from' to' (depth)						
		2" Christiansen from 300 'to 310 '(depth)						
		if needed						
	(c)	Anticipated drilling additive(s): E-Z mud						
7)	PROP	OPOSED WELL COMPLETION DESIGN/MATERIALS						
	(a)	Casing: <u>Material</u> <u>Diameter</u> <u>From</u> <u>To</u> <u>Comments</u>						
	` '	Temporary						
		Surface 10" 0 100' max						
		Screen (10') Stainless ++ 4" To be determined 0.02" from Geophysical						
		logs						
		Completion Pipe stainless + 4" 0 TD *						
		Standard material: Blank riser, silt trap, locking cap						
		N/A Data not available at this time						
		* for deep completions (450 feet or more)						
		** for shallow completions						
		+ Type 304, Schedule 5 stainless steel						
		Type 304, Schedule 10 stainless steel ++ Regular strength screen, extra strength screen used below 450 feet						
		++ Regular strength screen, extra strength screen used below 450 feet						
	(b)	Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.						
8)	PROF	POSED WELL DEVELOPMENT						
	(a)	Surge and bail with surge block and bailer.						
	(b)	Pump with submersible pump until parameters stabilize.						
9)	WEL]	L AUTHORIZATION						
	(a)	Proposed by Geoscience Consultants, Ltd.						
	(L)	Authorized Robert Mitchell NASA						
	(b)	Authorized Robert Mitchell NASA (signature)						